

Title (en)  
KNOCKING DETERMINING APPARATUS OF INTERNAL COMBUSTION ENGINE

Title (de)  
KLOPFBESTIMMUNGSVORRICHTUNG VON VERBRENNUNGSMOTOREN

Title (fr)  
APPAREIL DE DÉTERMINATION DE COUPS D'UN MOTEUR À COMBUSTION INTERNE

Publication  
**EP 1771712 B1 20090826 (EN)**

Application  
**EP 05767306 A 20050726**

Priority  
• JP 2005014005 W 20050726  
• JP 2004222259 A 20040729

Abstract (en)  
[origin: US2006021422A1] A knocking determining apparatus of an internal combustion engine that includes an in-cylinder injector and an intake port injector and that determines knocking based on an output signal of a knock sensor. The knocking determining apparatus includes a knocking determination prohibition unit prohibiting, when a ratio of fuel injection from the in-cylinder injector and the intake port injector is changed, knocking determination for a prescribed period after that change, or a knocking determination level change unit changing a knocking determination level for a prescribed period after that change.

IPC 8 full level  
**G01L 23/22** (2006.01); **F02D 41/30** (2006.01); **F02D 41/40** (2006.01)

CPC (source: EP US)  
**F02D 35/027** (2013.01 - EP US); **F02D 41/182** (2013.01 - EP US); **F02D 41/3023** (2013.01 - EP US); **F02D 41/3094** (2013.01 - EP US); **F02D 41/402** (2013.01 - EP US); **G01L 23/225** (2013.01 - EP US); **Y02T 10/40** (2013.01 - EP US)

Designated contracting state (EPC)  
DE FR IT

DOCDB simple family (publication)  
**US 2006021422 A1 20060202; US 7286924 B2 20071023**; CN 100516801 C 20090722; CN 1957240 A 20070502; DE 602005016260 D1 20091008; EP 1771712 A1 20070411; EP 1771712 B1 20090826; JP 2006037912 A 20060209; WO 2006011624 A1 20060202

DOCDB simple family (application)  
**US 18880505 A 20050726**; CN 200580016982 A 20050726; DE 602005016260 T 20050726; EP 05767306 A 20050726; JP 2004222259 A 20040729; JP 2005014005 W 20050726